TRYSTAR

POWER DISTRIBUTION CENTER

PDC (E-HOUSE)



Protecting Critical Electrical Components

Power Distribution Centers / E-House

(PDCs / E-Houses)

When operational safety and reliability are mission-critical, Trystar's Power Distribution Centers, also known as E-Houses, deliver secure, turnkey power solutions designed to perform in the harshest environments. Each PDC is built to protect staff and critical equipment while maintaining uninterrupted power for essential systems.

Constructed with NEMA-rated steel enclosures, integrated pressurization, air purification, and thermal insulation, Trystar PDCs provide a controlled environment that ensures reliable, efficient operation. Every unit is fully wired, tested, and commissioned prior to delivery—significantly reducing on-site installation time and costs.

With flexible capacity from 1MW to 5MW, compatibility with batteries, generators, and microgrids, and compliance with the industry's most rigorous standards, Trystar PDCs offer a dependable, scalable solution trusted by critical industries worldwide.



Power Distribution Center

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Benefits

Trystar Power Distribution Centers provide engineered, prefabricated electrical distribution solutions for high-demand industrial, government, and commercial facilities. Designed for resilience and performance, each PDC arrives ready for connection, enabling faster deployment and reduced field labor.

- **Reliable Power Protection:** Ensures continuous operation in critical environments, safeguarding personnel and assets.
- **Turnkey, Pre-Engineered Delivery:** Pre-wired and tested units minimize on-site installation time and reduce start-up risk.
- **Flexible Integration:** Supports 1MW–5MW power capacities and is compatible with batteries, generators, grid, or microgrid systems.
- **Safety & Compliance:** Built to UL, ISO, IEEE, NFPA, IBC, and ASHRAE standards for maximum reliability.
- **Rugged, Industrial Durability:** NEMA-rated construction with seismic Zone 4 and overpressure tolerance up to 50 PSI.
- **Reduced Downtime:** Factory integration accelerates commissioning and system readiness.
- **Long-Term Value:** Lower lifecycle costs compared to traditional concrete or masonry-built systems.

Key Features

- **Modular Construction:** Configurable from 40 ft. to 90 ft. lengths, variable widths, and multi-story options
- **Low Voltage Capacity:** 1MW to 5MW total power capability
- **UL-Certified Switchboards:** UL891 and UL1558 up to 4000A, 600VAC
- **Environmental Control:** Pressurized, insulated, and air-purified enclosures ensure clean and stable operation
- **Integrated Engineering:** Structural, electrical, fire/gas detection, HVAC, controls, and connectivity included
- **Grid & Microgrid Ready:** Operates in parallel or island mode for hybrid power setups
- **Control Panel Solutions:** PLC, DCS, metering, marshalling, and switchgear integration
- **Overpressure Protection:** Engineered up to 50 PSI with seismic Zone 4 certification
- **Optional UPS Systems:** 1250kVA–6500kVA for uninterrupted three-phase backup

Applications

Every unit integrates structural, mechanical, and electrical systems into a single, self-contained structure-delivering full control, safety, and monitoring capabilities from day one. With compliance to UL, ISO, IEEE, NFPA, ASHRAE, and IBC standards, Trystar PDCs meet or exceed the requirements of traditional site-built infrastructure while offering greater flexibility, speed, and long-term cost savings:

- Power Generation Facilities
- Telecommunications & Data Centers
- Oil, Gas & Petrochemical Industries
- Healthcare & Life Safety Infrastructure
- Military & Government Installations
- Manufacturing & Industrial Plants
- Commercial Complexes
- Microgrid and Renewable Energy Projects

Available Options

- Custom Layouts and Multi-Story Configurations
- Docking Stations and Battery Cabinets
- Fire & Gas Detection, Suppression, and Prevention Systems
- Integrated HVAC, Lighting, and Security Controls
- BAS (Building Automation System) Integration
- Remote Monitoring and Control Connectivity
- Custom Powder-Coat and Branding Options
- Transformers, Grounding, and Lightning Protection Systems
- UL-Certified Switchboards and Distribution Units (350kVA–500kVA)
- UPS Options up to 6500kVA for Continuous Operation

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